

Benchun Duan

List of Publications by Year in descending order

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39
papers

904
citations

687363

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454955

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41
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docs citations

41
times ranked

570
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation-constrained Multicycle Dynamic Models of the Southern San Andreas and the Northern San Jacinto Faults: Addressing Complexity in Paleoearthquake Extent and Recurrence With Realistic 2D Fault Geometry. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	2
2	Community-driven Code Comparisons for Three-dimensional Dynamic Modeling of Sequences of Earthquakes and Aseismic Slip. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	27
3	Study on the microseismic clouds induced by hydraulic fracturing. <i>Geomechanics and Geoengeering</i> , 2021, 16, 400-416.	1.8	0
4	Observation-constrained multicycle dynamic models of the Pingding Shan earthquake gate along the Altyn Tagh Fault. <i>Tectonophysics</i> , 2021, 814, 228948.	2.2	8
5	Using a dynamic earthquake simulator to explore tsunami earthquake generation. <i>Geophysical Journal International</i> , 2021, 229, 255-273.	2.4	4
6	EQsimu: a 3-D finite element dynamic earthquake simulator for multicycle dynamics of geometrically complex faults governed by rate- and state-dependent friction. <i>Geophysical Journal International</i> , 2020, 220, 598-609.	2.4	16
7	Exploring Physical Links between Fluid Injection and Nearby Earthquakes: The 2012 Mw4.8 Timpson, Texas, Case Study. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 2350-2365.	2.3	4
8	3D Finite-Element Modeling of Dynamic Rupture and Aseismic Slip over Earthquake Cycles on Geometrically Complex Faults. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 2619-2637.	2.3	10
9	Rupture Propagation along Steepers of Strike-Slip Faults: Effects of Initial Stress and Fault Geometry. <i>Bulletin of the Seismological Society of America</i> , 2020, 110, 1011-1024.	2.3	18
10	Inferring fault friction properties and background stress using fluid flow and dynamic rupture modeling, and machine learning techniques – Concept case study of the M4.8 Timpson (TX) earthquake. , 2020, , .		0
11	Dynamic modeling of bedding-plane slip during hydraulic fracturing. <i>Geophysics</i> , 2019, 84, KS95-KS104.	2.6	5
12	Multicycle Dynamics of the Aksay Bend Along the Altyn Tagh Fault in Northwest China: 2. The Realistically Complex Fault Geometry. <i>Tectonics</i> , 2019, 38, 1120-1137.	2.8	11
13	Multicycle Dynamics of the Aksay Bend Along the Altyn Tagh Fault in Northwest China: 1. A Simplified Double Bend. <i>Tectonics</i> , 2019, 38, 1101-1119.	2.8	8
14	Significance of the dynamic stress perturbations induced by hydraulic fracturing. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 169-176.	4.2	7
15	Do earthquakes trigger mud volcanoes? A case study from the southern margin of the Junggar Basin, NW China. <i>Geological Journal</i> , 2019, 54, 1223-1237.	1.3	2
16	Studying stress state and fault zone properties of source regions of induced seismicity using dynamic rupture models. , 2019, , .		1
17	Scenario Earthquake and Ground-motion Simulations in North China: Effects of Heterogeneous Fault Stress and 3D Basin Structure. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 2148-2169.	2.3	13
18	A Suite of Exercises for Verifying Dynamic Earthquake Rupture Codes. <i>Seismological Research Letters</i> , 2018, 89, 1146-1162.	1.9	142

#	ARTICLE	IF	CITATIONS
19	Dynamics of Nonplanar Thrust Faults Governed by Various Friction Laws. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 5147-5168.	3.4	14
20	Seismic shaking in the North China Basin expected from ruptures of a possible seismic gap. <i>Geophysical Research Letters</i> , 2017, 44, 4855-4862.	4.0	7
21	Dynamical stresses caused by a propagating hydraulic fracture and dynamic shear sliding of weakness/bedding planes as a microseismic source. , 2017, , .		2
22	Spontaneous rupture on natural fractures and seismic radiation during hydraulic fracturing treatments. <i>Geophysical Research Letters</i> , 2016, 43, 7451-7458.	4.0	10
23	Coseismic Slip Gradient and Rupture Jumps on Parallel Strike-slip Faults. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 204-212.	2.3	5
24	Elastic and inelastic responses of compliant fault zones to nearby earthquakes in three dimensions: a parameter-space study. <i>Geophysical Journal International</i> , 2015, 201, 1195-1214.	2.4	2
25	Inelastic response of compliant fault zones to nearby earthquakes in three dimensions. <i>Tectonophysics</i> , 2014, 612-613, 56-62.	2.2	3
26	Dynamic rupture of the 2011 Mw 9.0 Tohoku-Oki earthquake: Roles of a possible subducting seamount. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	65
27	Deformation of compliant fault zones induced by nearby earthquakes: Theoretical investigations in two dimensions. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	8
28	Reply to comment by Y. Fialko on "Deformation of compliant fault zones induced by nearby earthquakes: Theoretical investigations in two dimensions". <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	1
29	Parallel Simulations of Dynamic Earthquake Rupture along Geometrically Complex Faults on CMP Systems. <i>Journal of Algorithms and Computational Technology</i> , 2011, 5, 313-340.	0.7	7
30	Parallel Earthquake Simulations on Large-Scale Multicore Supercomputers. , 2011, , 539-562.		4
31	Role of initial stress rotations in rupture dynamics and ground motion: A case study with implications for the Wenchuan earthquake. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	51
32	Inelastic response of compliant fault zones to nearby earthquakes. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	11
33	An OpenMP Approach to Modeling Dynamic Earthquake Rupture Along Geometrically Complex Faults on CMP Systems. , 2009, , .		1
34	Effects of low-velocity fault zones on dynamic ruptures with nonelastic off-fault response. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	26
35	Asymmetric off-fault damage generated by bilateral ruptures along a bimaterial interface. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	23
36	Inelastic strain distribution and seismic radiation from rupture of a fault kink. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	71

#	ARTICLE	IF	CITATIONS
37	Nonuniform prestress from prior earthquakes and the effect on dynamics of branched fault systems. Journal of Geophysical Research, 2007, 112, .	3.3	61
38	Heterogeneous fault stresses from previous earthquakes and the effect on dynamics of parallel strike-slip faults. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	147
39	Multicycle dynamics of nonplanar strike-slip faults. Journal of Geophysical Research, 2005, 110, .	3.3	107